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Applicant: Klemets et al.

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**DECLARATION**

I, Hans Hällström, hereby declare that:

1) I am a co-inventor of the subject application.

2) I hold the degree of M.Sc. Chem. Eng.(polymers), that I am employed by Akzo Nobel/Eka Chemicals AB in Sweden since 1/1 1969 as a research scientist, and that I at present hold the position of Senior Specialist, Product and Process development for the Paper Chemicals Division of Eka Chemicals AB.

3) The following experiments were performed under my direction and control:

Conductivity levels of aqueous cellulosic suspensions have been measured for 20 European, North American and Japanese paper machines commercially producing different grades of paper from different furnishes in papermaking processes comprising white water recirculation.

For reasons of confidentiality, the names and countries of the respective paper mills are not specifically mentioned in the table.

Paper Mill No.	Type of Paper Produced	Type of Furnish / Cellulosic Fibres	Conductivity [ $\mu\text{S}/\text{cm}$ ]
1	Uncoated fine paper	Bleached de-inked (recycled) and bleached wood-free fibres	650
2	Liner	Recycled fibres	5000
3	Coated fine paper	Bleached wood-containing and bleached wood-free fibres	3000
4	Wood-containing printing paper	Bleached wood-containing fibres	1300
5	Wood-containing printing paper	Bleached wood-containing fibres	900
6	Board	Unbleached wood-containing and unbleached recycled fibres	1400
7	Coated fine paper	Bleached recycled and bleached wood-free fibres	500
8	Wood-containing printing paper	Bleached wood-containing fibres	900
9	Wood-containing printing paper	Bleached wood-containing fibres	1800
10	Board	Bleached recycled and bleached wood-free fibres	1300
11	Wood-containing printing paper	Bleached wood-containing fibres	720
12	Coated fine paper	Bleached wood-containing and bleached wood-free fibres	1000
13	Wood-containing printing paper	Bleached wood-containing and bleached wood-free fibres	1100
14	Liner	Unbleached recycled and unbleached wood-free fibres	2000
15	Coated fine paper	Bleached de-inked and bleached wood-free fibres	700
16	Wood-containing printing paper	Unbleached de-inked (recycled) and bleached wood-free fibres	3900
17	Uncoated fine paper	Unbleached de-inked (recycled) and bleached wood-free fibres	1200
18	Board	Recycled fibres	1500
19	Liner	Recycled fibres	1000
20	Coated fine paper	Bleached recycled and bleached wood-free fibres	600

It can be seen that the paper mills, which were commercially producing paper from cellulosic suspensions, were producing paper from aqueous papermaking suspensions having conductivity levels within the range of from 500 to 5000  $\mu\text{S}/\text{cm}$ . The majority or 80% of the paper mills were commercially producing paper from cellulosic suspensions having conductivity levels within the range of from 500 to 1800.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Hans Hallstrom  
Signature

Dated: 6/2 2003